

Figure 1A

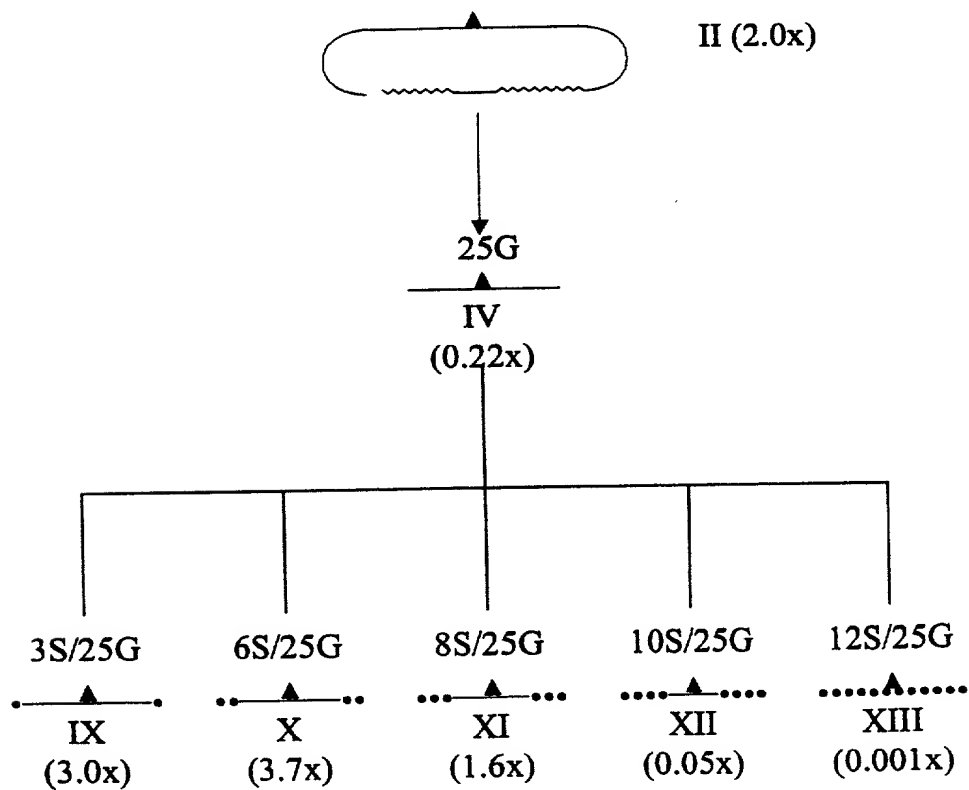


Figure 1B

# Plasmids, DNA targets and chimeric oligonucleotides

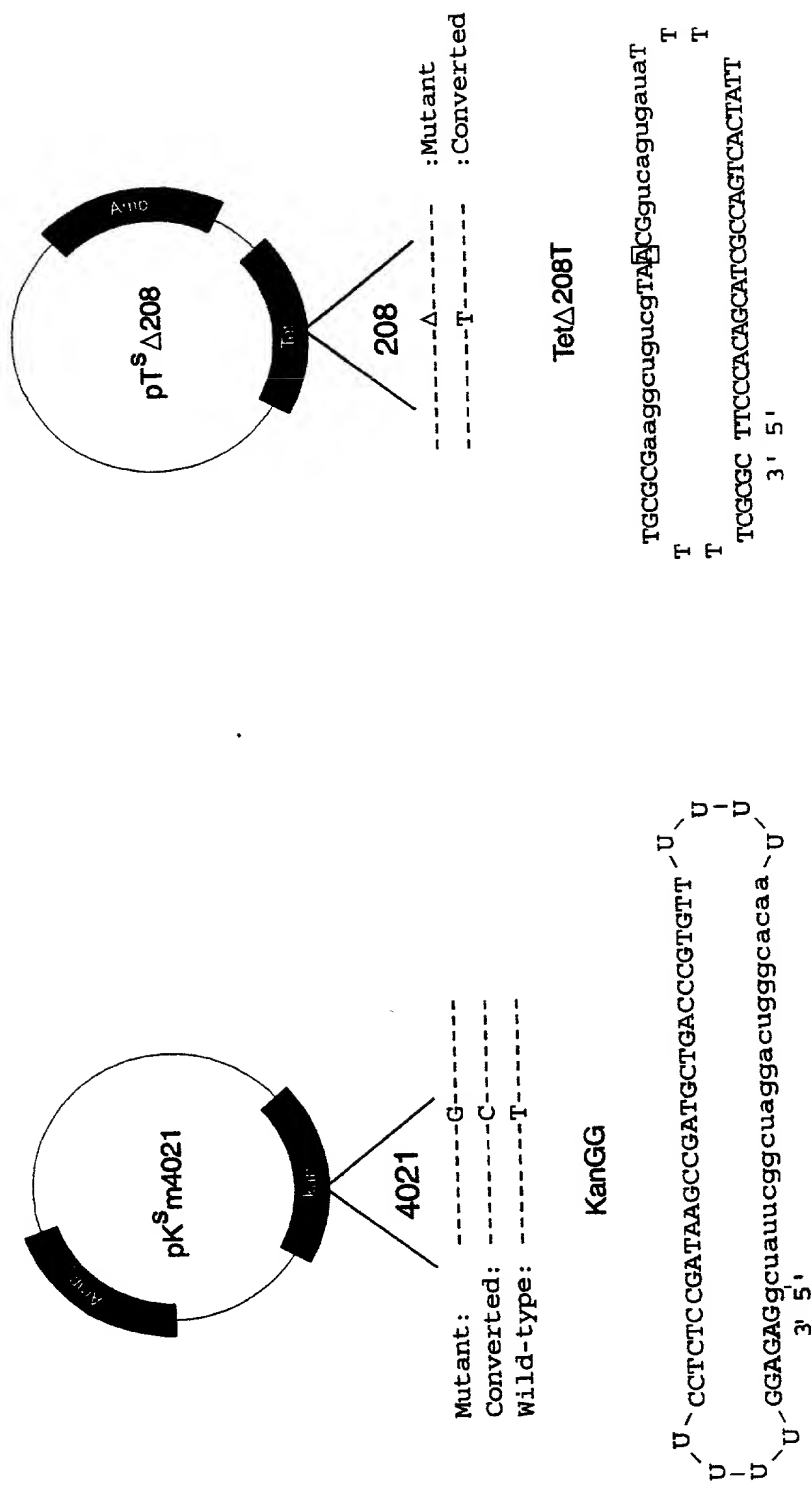
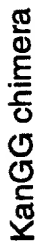


Figure 1C

[illegible]

### Kan mutant sequence

3



## Kan converted sequence

## DNA SEQUENCE ANALYSES

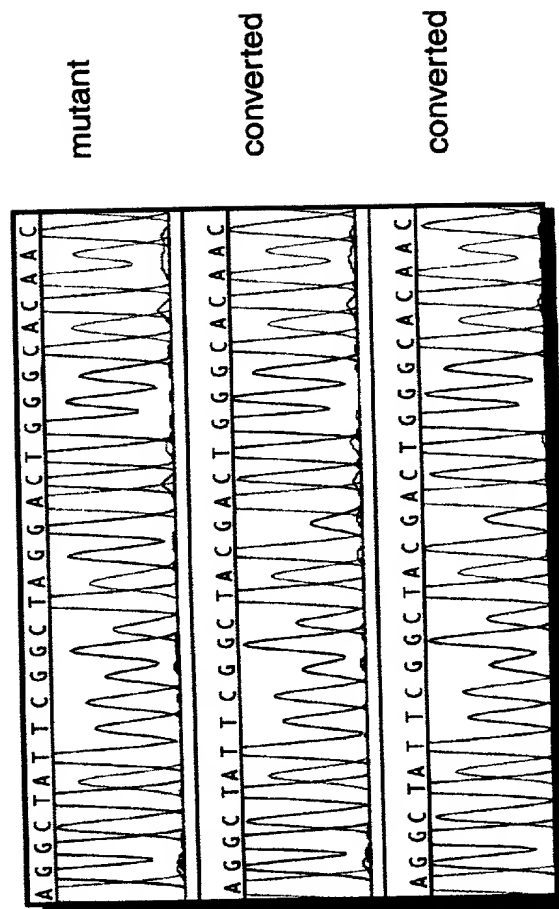
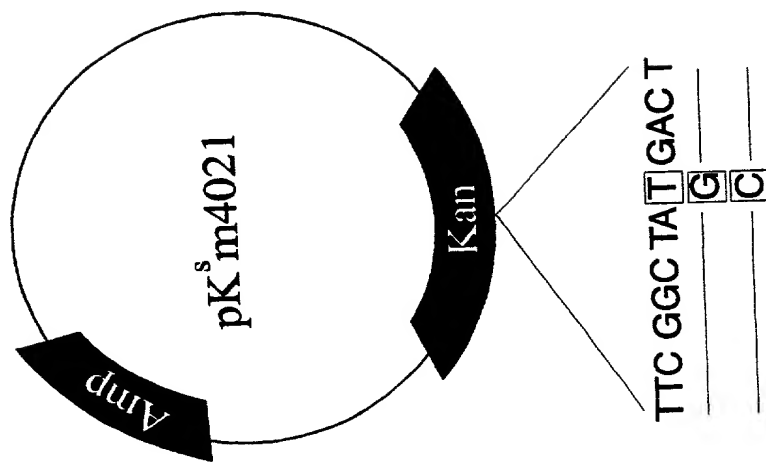


Figure 1D



wild type  
mutant  
converted

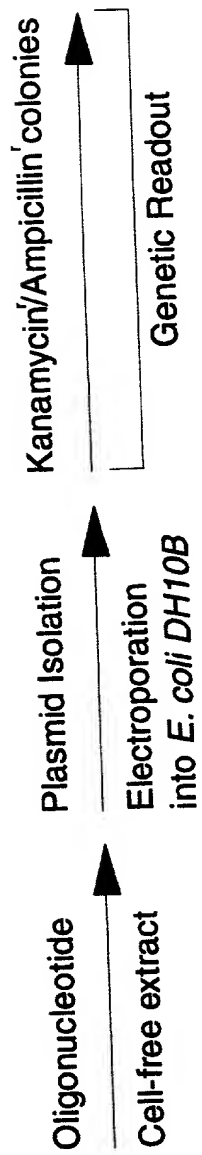
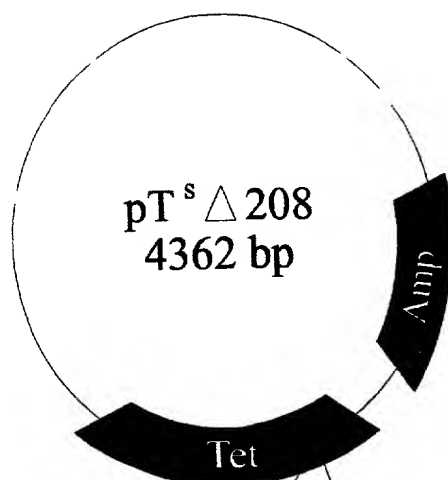


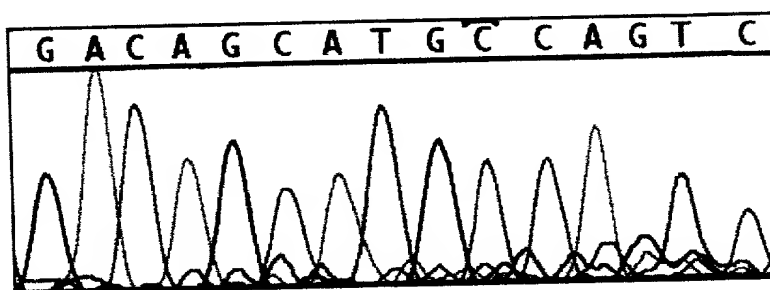
Figure 2



Wild type: GAC AGC AT C GCCAGT  
 Mutant: GAC AGC AT - GCCAGT  
 Converted: GAC AGC AT T GCCAGT

### Sequence analysis of Tet<sup>r</sup> plasmid Δ208

Control



3S/25A

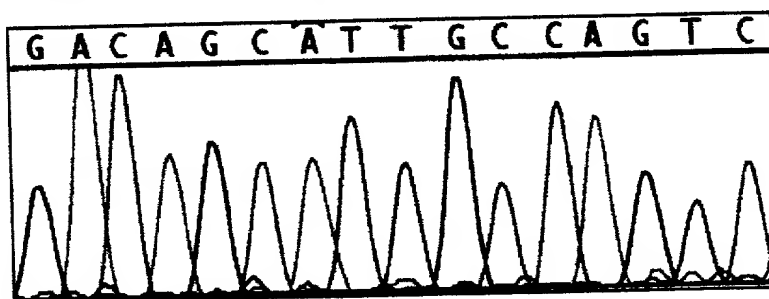
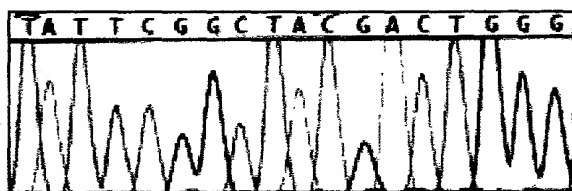


Figure 3

# DNA sequence analysis of Kan<sup>r</sup> plasmids

Target codon distribution					
oligomer	TAG	TAC	TAC/TAG	TGG	TCG
1) 3S/25G (20)	----	+	---	---	---
2) 6S/25G (20)	----	+	---	---	---
3) 8S/25G (20)	----	+	---	---	---
4) 10S/25G (18)	----	+	---	+(2)	+(2)
5) 25S/25G (4)	---	---	+(2)	+(2)	---

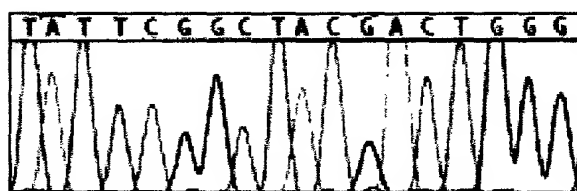
3S/25G



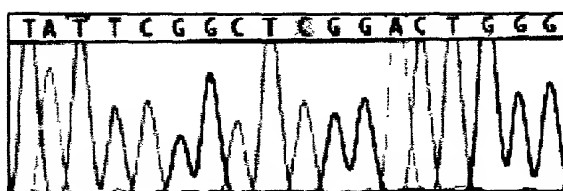
6S/25G



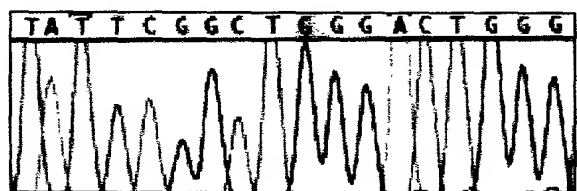
8S/25G



10S/25G



25S/25G



25S/25G

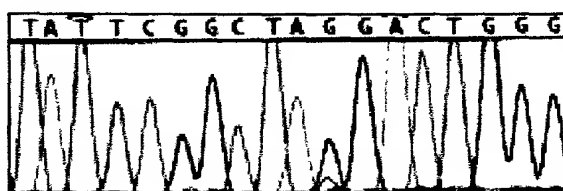


Figure 4

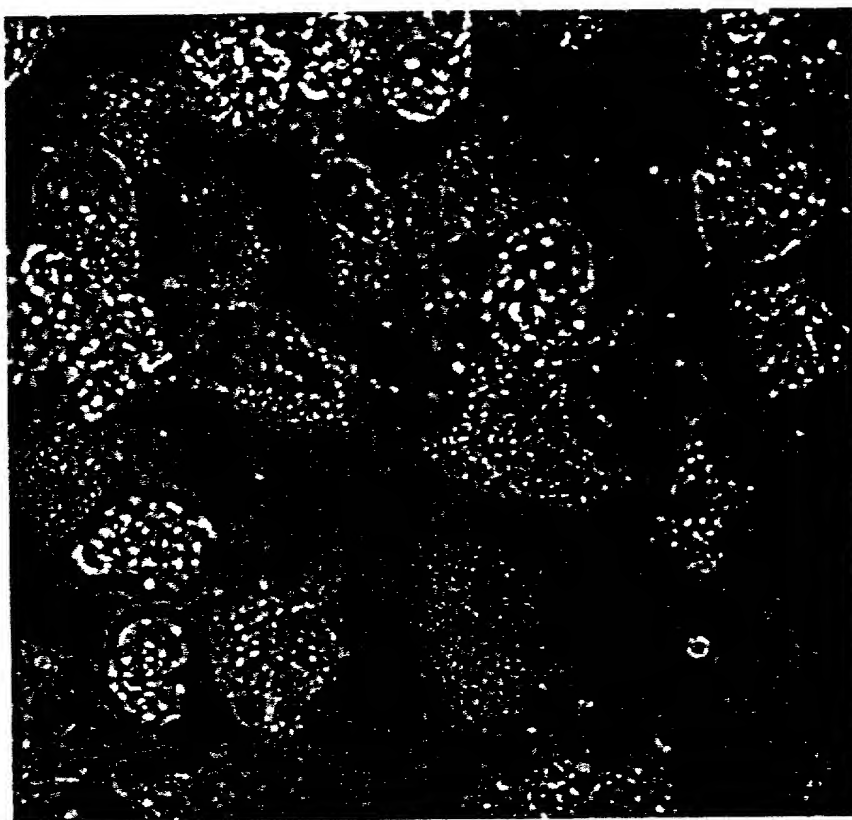


Figure 5

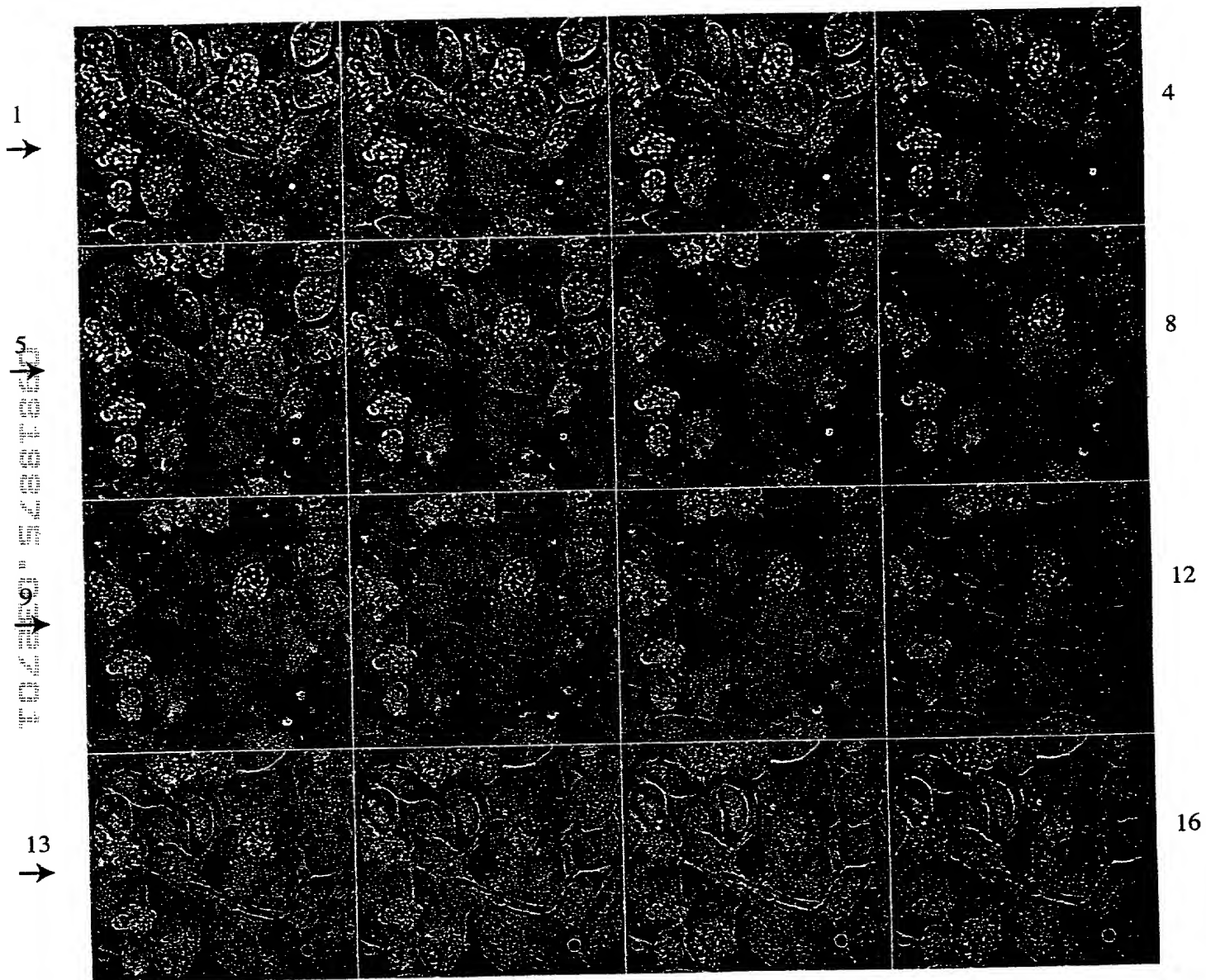


Figure 6



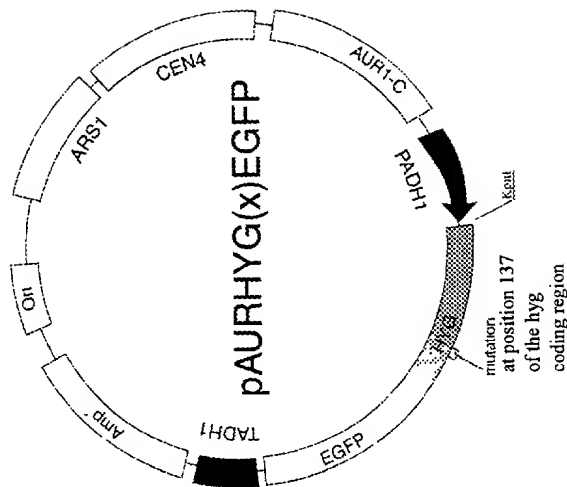
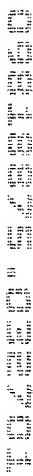


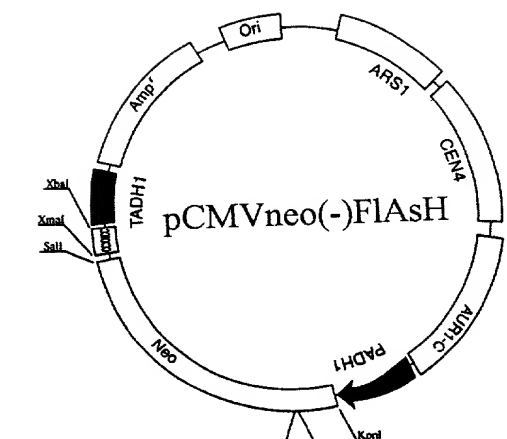
Figure 7A

Sequence of normal allele: GTGGATATGTCCT  
 Target/existing mutant: GTGGATAAATGTCCT  
 Desired alteration: GTGGATACGTCCT

Sequence of normal allele: GTGGATATGTCCT  
 Target/existing mutant: GTGGATAGGTCCT  
 Desired alteration: GTGGATACGTCCT

Figure 7B

[illegible][illegible][illegible][illegible][illegible][illegible]



TTCGGCTA G GACTGG  
AAGCCGAT C CTGACC

Neo/kan target  
mutant



TTCGGCTA C GACTGG  
AAGCCGAT G CTGACC

converted

### FUSION GENE FOR LIGAND BINDING

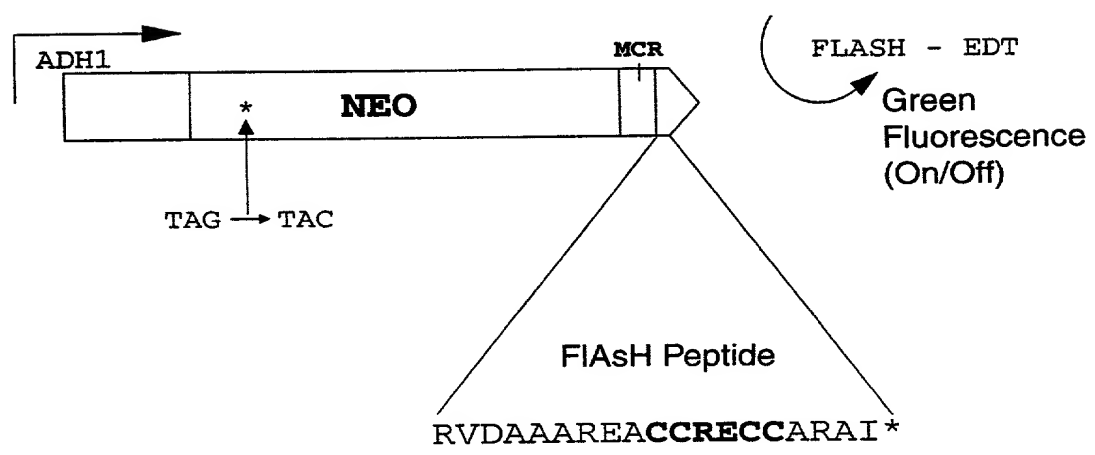


Figure 9

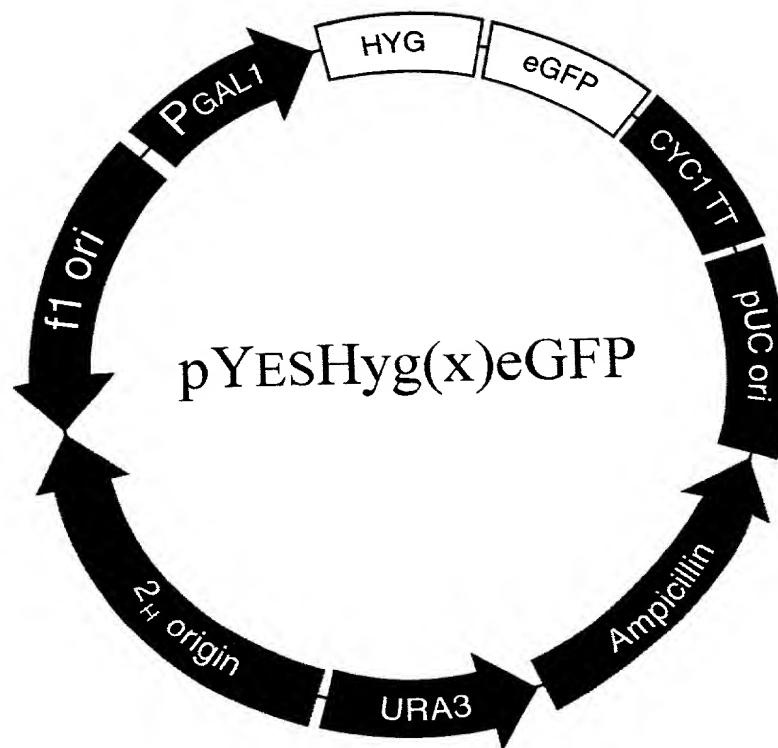


Figure 10